CP372 Group 29

Datagram Format and Timing Report

Datagram Format:

|  |  |  |
| --- | --- | --- |
| Sequence Number | EOF | Buffer Size |
| Data | | |

The datagram header is split into three sections each containing four bytes of data. The sequence number contains only the sequence number and with four bytes of data sets the maximum size of a file at 214 GB. The EOF is simply a 1 or a 0, 1 indicating that it is the EOF and a 0 indicating that it is not. The buffer size indicates the size of the buffer, typically 100 until the last datagram where there may not be enough bytes left in the file to fill the buffer, in which case the size will indicate how much of the buffer space is used. The Data contains only the buffer of actual data with a size of 100 bytes.

Timing Report:

|  |  |  |  |
| --- | --- | --- | --- |
|  | 100ms Timeout | 500ms Timeout | 1000ms Timeout |
| 2 Kb File | 93ms | 51ms | 50ms |
| 128 Kb File | 253ms | 272ms | 369ms |
| 512 Kb File | 818ms | 717ms | 734ms |
| 1 Mb File | 1647ms | 1423ms | 1364ms |